

TIMELINEZ

ONE YEAR OLD

Volume 2 Issue 6

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Modem Information
Wordprocessing Review
Hostel Exchange

Computer Faire Report
New Z-80 Instructions
Latest News & Rumors

T/S Users Meet On Compuserve

by Norm Lehfeldt
(Compuserve ID # 7246 3273)

Now that you've finally got your hands on a modem, what can you do with it?

If you have succumbed to the temptation to subscribe to Compuserve, you can share concerns and knowledge with other Timex/Sinclair users in our own special interest group. Yes, it's true, even though you won't find it in the Compuserve Index, there is a T/S group! Here's how to find it:

Once you have logged on to Compuserve, enter "GO CEM 450". This takes you into the Computers and Electronics Magazine Special Interest Group (CEM SIG), wherein resides a little band of T/S aficionados carrying on as if Timex were still in business.

The first time you enter CEM SIG, you will be encouraged to log on as a member. Go ahead and do so. Just follow the prompts (Remember to give your name not a CB Handle--You're among friends here). Once you are logged on as a member you have access to all the CEM SIG features.

Each time you log on thereafter you will probably want to read the bulletins and new messages first thing. You choose these options from the Function Menu. Once you have caught up on those, you may want to check in on the on-line conference (Number 6 on the Function Menu).

There you will often find folks just shooting the breeze on

computer topics. A special feature is the Timex/Sinclair conference (Wednesdays, 7:00P.M. PDT) hosted by System Operator (SYSOP) Patrick. It's a chance to catch up on the latest T/S gossip, get technical help, learn where to buy hard to get hard/software or just meet some friendly fellow computer enthusiasts.

Another feature of CEM SIG you will want to check out is the Data Base or XA. Entering XA (instead of a menu item number) at the function menu prompt will give you a list of the data base sections and their subjects. Section 4 is the Timex/Sinclair section. It contains programs you can download from Compuserve into your very own computer--provided you are using Byte-Back Co.'s ZCOMM modem software. You can also upload programs to XA 4 which can then be downloaded by other subscribers.

It takes a bit of experience and some perusal of Compuserve's users guides to be able to access all of the features of the Special Interest Groups on the system. But for those of us faced with diminishing commercial support for our computers, the Timex/Sinclair section on CEM SIG makes it worthwhile.

TIMELINEZ (c) is the joint publication of three Timex/Sinclair User Groups in the San Francisco / Oakland / San Jose Bay Areas. Old and new members are always welcome - so are experienced hardware and software hackers as well as beginners. Hope to see YOU at our next meeting.

EBZUG	3rd. Thu.	6/21	7/19
PUG	3rd. Sun.	6/17	7/15
SUSTUG	Last Tue.	6/26	7/31

SOFTWARE REVIEW

By Walt Gaby

W P 3 2

WP32 is a wordprocessor and much more!!! This program, written by PUG-member Bob Orrfelt, has five major components:

1. Word Processing,
2. Banners,
3. Special Characters,
4. Hex Utilities, and
5. Save-Load.

The wordprocessing component has five sub-parts: text, headlines, single lines, screen graphics, and format/print.

The text element provides for up to 320 lines (15 screens). Full-screen editing includes letter deletion, letter insertion, line deletion, line insertion, line copy, and deletion of a block of lines.

With 320 lines, it is easily possible to work on several letters or memos at the same time. This article, for instance, used only 150 lines; while writing it, I occasionally switched to a memorandum that I was preparing for my wife.

The second subroutine allows for the creation of up to eight quarter-inch headlines...

SUCH AS THIS

The single-line section provides a place for up to eight lines of standard text for such purposes as a letterhead that you wish to include as part of the printout or for notes that you would not want to print in your final document.

The screen graphics section provides a powerful set of methods for generating exhibits for inclusion in your letters or documents. These include a box to frame the exhibit, text statements, circles, lines (anywhere from straight to half-circle in form), and the ability to plot and erase complex drawings pixel by pixel.

The last section of the wordprocessing component provides for formatting your document and producing hardcopy on a TS-2040 printer. The user simply identifies the sequence of blocks of text, headlines, single lines, and exhibits. The sequence can also include special spacing and lines between the elements to be printed.

The second major component of WP32 provides for the creation and printing of banners. These banners can have letters which are either 1 inch high or 2.5 inches high.

The third major section of WP32 offers a choice of four special sets of 21 additional characters (available through the graphics key): general symbols, scientific symbols, Greek letters, and Spanish letters.

The next major sub-program provides a choice of a Hex Peek or a Hex Poke routine. Following the input of a starting hex address, the Hex Peek routine will generate a printout of decimal address, hex address, and hex byte. The Hex Poke routine lets the user input hex bytes starting at any selected address.

I used the Hex Poke routine to replace the Greek letters with Russian letters:

Б Г Д Е Ж З И Й Л П
Ф Ц Ч Ш Щ Ъ Ы Э Ю Я

The results of the hex routines, of course, remain in memory even after you clear the WP32 program with the NEW command.

The final major component of the WP32 package includes the Save-Load routines. The user has the choice of saving everything, or just the headlines, or just the text, or just the graphic exhibit. The same four choices are available with regard to loading.

The documentation which accompanies the WP32 program is very well organized. The instruction, whether by explanation or by example, is such that the user can begin using all of its features in a very short time.

The manual also has an appendix which contains a complete listing of the machine code for the standard ROM characters as well as for the four special sets of additional characters.

Since this program is written in BASIC, typing has to occur at a slightly slower pace than with a typewriter. But it is easy to learn the pace. The WP32 does not include a few features found in many word processors. For instance, it does not provide margin justification, but that is a feature which I think is greatly overrated.

Considering the many features of the WP32 (and the low price of \$24.95), it is a very good program indeed!

T/S HOSTEL SYSTEM : RICK JOHNSON

I have started a system to pair up Timex/Sinclair Users who wish to travel with those who would like to share programs, ideas, and a place to stay with other users. The way it works is as follows:

- 1) Fill out the attached registration cards for either a traveler or a hostel provider.
- 2) Send the completed form to Rick Johnson, 11 Funston Ln, Cincinnati, OH 45218.
- 3) I will match up the two with a computer database search program. If a match is found, I will notify the traveler of the match and request a fee of \$5.00 for the first contact and \$3.00 for each additional contact. The fee applies only to the traveler. Upon receipt I will notify both parties in writing. All further contacts will be between the two parties. In the event that arrangements cannot be made, the two people may wish to set something up latter.
- 4) All these travelers who are paired up are encouraged to join the list of hostel providers.

VISITOR'S FORM

Name: _____
 Addr: _____
 City: _____ St. _____
 Zip: _____ Home Ph. _____
 Work Ph. _____
 Can You Host A T/S User? _____
 Can You Bring Sleeping Bags? _____
 No Of People Visiting? _____
 Special Conditions: _____

Cities/States To Visit _____ Dates: _____

Please Note Other Stops On Back
 Send To: T/S Hostel System C/O
 Rick Johnson 11 Funston
 Thanks Cincinnati Oh 45218

HOSTEL PROVIDER'S FORM

Name: _____
 Addr: _____
 City: _____ St. _____
 Zip: _____ Home Ph. _____
 Work Ph. _____
 Spare Bedroom Available: _____
 Space For Sleeping Bags: _____
 Best Time For Visit: _____
 Special Conditions: _____

Notes: _____

Please Draw Map On Back Thanks
 Send To: T/S Hostel System C/O
 Rick Johnson 11 Funston
 Cincinnati Oh 45218

TIMEX ANNOUNCES SCHEMATIC AND TECHNICAL MANUAL FOR THE 2068

A large schematic diagram of the 2068 may be purchased for \$2.50 (postage included) from the Timex facility in Little Rock, Arkansas. The schematic will be available starting April 1st.

A comprehensive Technical Manual will also be available starting May 1, 1984. The manual is quite lengthy and will be priced at \$25.00. It includes ALL technical information which is available from Timex for the 2068.

Subjects covered include memory, bank switching, block diagram, I/O facilities, I/O port layout map, interface with external devices, connector specifications, character set, system software, commands available on the 2068 but not the ZX Spectrum, advanced video modes, connection of RGB Monitor and other information.

The address for both items is:

Timex Materials Sales Div.
 P.O. Box 1378
 Little Rock, AR 72203

TIMEX SURVIVORS

TIMELINEZ has just received a very interesting publication. It is called THE TIMEX SURVIVORS FLYER and it is published by GAMES TO LEARN BY, INC.

The Flyer is a combination of ads for larger Timex S/U and H/U suppliers and news, articles, reviews, etc. It contains about 11 pages.

To obtain your free copy write:

TIMEX SURVIVORS
 GAMES TO LEARN BY, INC.
 P.O. BOX 575
 2 SOUTH STREET
 WILLIAMSBURG, MA 01996

SUNSET

NEW FOR THE 2068
 =====
 TASUORD

64 Column Word
 Processor \$49.95

TASUIDE

64 Column Screen
 Display \$19.95



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Undocumented Z-80 Instructions

by Frank Moura

As we probably know by now there are two registers in the Z-80 called the IX and IY registers. All of the official instructions (published by Zilog) for these registers are all 16 bit operations. This programmer has found there use awkward, and not useful. They are probably good for absolute indexing of tables and lists that always have absolute offsets to the elements in question.

A typical instruction like LD A,(IX + dis) is an example of the problem. "dis" is a displacement byte. This displacement is added to the address in IX. The byte at this location is then loaded into the A register. Well, "dis" must evaluate to a numerical constant. This can be in the form of an EQU which is a label, (ex. FOO EQU 80h) that when used as an operand in an instruction evaluates to a number. So, LD A,(IX + FOO) is then a legal statement. This, however, is as far as the flexibility of these registers went.

Back to the matter at hand. One may notice with a quick look at the Z-80 instruction set that all of the instructions start with DDh for IX, and FDh for the IY. Now here's the good news, these registers have also 8-bit operations. Any operation that uses the registers H or L may be preceded by DDh or FDh and they will operate on on the HighX or LowX and Y registers. This gives you 4 more 8 bit registers to use.

A suggested syntax for these registers is XH,XL and YH,YL. A way to generate these is to precede the normal H and L instructions with DD or FD respectively. The DEFB (DB) assembler directive is quite useful for this purpose.

Here are a few of the instructions that can be used in this manner. Remember that all of the next instructions can be used on both the IX and IY registers by placing the appropriate byte in front of the instruction :

LD H,r	LD L,r	CP H	CP L
LD r,H	LD r,L	DEC H	DEC L
LD H,L	LD L,H	INC H	INC L
ADC A,H	ADC A,L	OR H	OR L
ADD A,H	ADD A,L	SBC A,H	SBC A,L
AND H	AND L	SUB H	SUB L

All of the BIT manipulation instructions (SET,RES,BIT) do not work with these registers nor do any of the IN or OUT instructions, but these new instructions make the normally dull and unexciting IX and IY register into a different animal altogether. Enjoy



 **
 ** E B Z U G
 ** East Bay Z80 User's Group
 ** Meetings begin at 7:30 pm:
 ** June 21, 1984
 ** July 19, 1984
 **

We currently use the public meeting room of the West Branch of the Berkeley Public Library. Meetings are generally on the third Thursday of each month - watch for announced changes in this box. Tables and limited power outlets are available (bring power strips) so your equipment is always welcome.

For more information contact:

Joel Brody
 3807 Elston
 Oakland, CA 94602
 (415) 531-6566

Or (Newsletter Ed. and Info.)

Rick Link
 854 40th Street
 Richmond, CA 94805
 (415) 234-3310



PENINSULA USERS GROUP - PUG

Meetings are held on the 3rd Sunday of each month, 1 P.M.

JUNE 17
 JULY 15

Meet. rooms are on lower floor.

NOTE: Please use the entrance on the north side of the hospital. Also try to park on north side, not in visitor's lot. THANKS.

Electrical outlets and tables are available so bring your equip. and extension cords if possible. Cafeteria service is available and families are welcome. Hope to see you soon.

MEMBERSHIP SCHEDULE:

FULL (Newsletter and S/U library privileges) \$15/YR

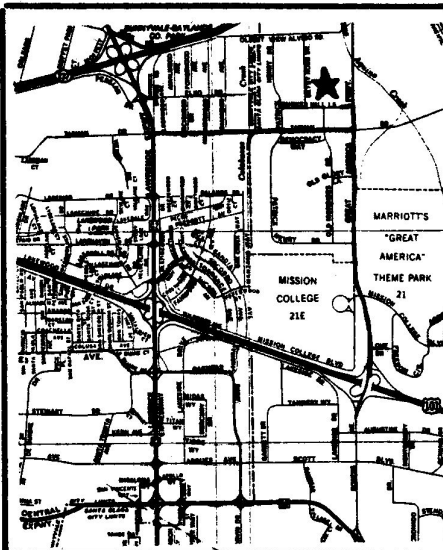
PARTIAL (Newsletter only) \$10/YR

For more information contact:

George Mockridge
 263 Gateway #107
 Pacifica, CA 94044
 (415) 359-3198

Send newsletter contributions:

Frank Moura
 858 Chenery St.
 San Francisco, CA 94131
 (415) 333-2231



Silicon Valley SINCLAIR/IMEX
 User Group (SUS/UG)
 P.O. BOX 4133
 Santa Clara, CA 95054-0133
 (408) 738-2888 X4579

Rita Carr
 Jack Dohany
 Marvin Elwell
 Jerry Jones
 Bill Miller
 Mark Waller

SUS/UG meets the last Tuesday of the month at:
 Dysan Corp. Headquarters
 5201 Patrick Henry Drive
 Santa Clara

Upcoming meetings:

JUNE 26
 JULY 31
 AUG 28

Computer Faire Report

BY Bill Miller
408 253-3178

FOR Silicon Valley
Sinclair Timex
User Group
SUSUG
P.O. Box 4133
Santa Clara, CA 95054-0133

During the 1984 West Coast
Computer Faire, March 22nd to
25th, the Timex user groups
had booth #1 in room 201 of the
San Francisco Civic Auditorium.
- We wish to thank Mr. Ira
Kuchek and the Management of
the West Coast Computer Faire
for making this booth available
at no cost.
- We handed out 200-250
information packages:

- * Timex Sinclair 2068 data sheet
- * San Francisco Bay Area User
Groups addresses & meeting
dates
- * Timex Sinclair 1500 data sheet
- * Timex Sinclair 2020 data sheet
- * Timex Sinclair 2040 data sheet
- * Timex Sinclair 1000 data sheet
- * Timex Sinclair 1016 data sheet

- We sold 30-35 newsletters and
collected \$20.50.
- We were contacted by (got
business cards from) 5 people:

* Carl L. Bascom
Vice Consul (Commercial)
British Consulate - General
120 Montgomery Street
San Francisco, CA 94140
415 981-3030
(Mr. Bascom has seen the
Sinclair QL demonstrated at Sir
Clive Sinclair's home.)

* Jim McMurry
Mentor Computers
1901 Old Middlefield Road #9
MTN VIEW, CA 94040
(415) 941-7781
(Jim was one of the early
T/S User Group members. We
didn't get a chance to find out
what Mentor specializes in.)

* Sandra Gey
Friends Software
P.O. Box 527
Berkeley, CA 94701-0527
(415) 540-7292
(Friend Report Generator
which reads ASCII, BASIC, COBOL,
and DBASE II files. Handy for
those of you running DBASE II
on your T/S 1000.)

* Jorge Aranovich
Portland Technology
6 West 32nd Street
New York, NY 10001
(212) 239-8650
(Portland exports Timex
computers to Argentina and
Mr. Aranovich is trying to set
up a user group in Argentina.)

* William E. Black, Jr., P.E.
Industrial Engineering
Coordinator
Engineering Technical Unit
U.S. Postal Service
Bakersfield, CA 93302-9998
(805) 861-4109 / FTS 951-4109
(Mr. Black is interested in
starting or joining a User
Group in his area.)

- 13 people signed our Other
Area User Groups list,
indicating they were already
part of another User Group or
wished to start one or join one
in their area:

* Peter Cummins
P.O. Box 782
Middletown, CA 95461
709 987-2477

* Mark Headrick
P.O. Box 9486
Reno, NV 89567
702 747-2436

* Rod McKenzie
2525 Bekry Dr
Fairfield, CA 94533
707 422-5262

* Thomas Whitson
(User's Club)
1400 Gurneville Road
Santa Rosa, CA
707 523-1766

* George Britt
(Sacto User's Group)
1961 Howe Ave #118
Sacramento, CA 95825
916 922-8145

* Jeff Lesman
Valley Computer Club
1409 Kuehner Dr.
Simi Valley, CA 93063

* George Hadley
1401 SW 172
Seattle, WA

* Ray Makino
415 El Camino Del Mar
San Francisco, CA 94121

* Mr. Thomas R Poston
44 Liebig
San Francisco, CA 94112

* Richard Jung
483A High St
San Luis Obispo, CA 93401

* Kathy Smith
945A Blanco Circle
Salinas, CA 93901

* Gerry Stwora
95 California Av
San Leandro, CA 94577

- Three Programs were donated
to the club for Public Domain
use:

* "Address Book" For the T/S1000
BY Bob Kovach

415 854-5100
This is a data base program
that can take advantage of a
T/S1000 series computer with
64K, it requires at least 16K.

* "Othello" For the T/S1000
BY James Rutenik

415 933-7530
This program is in machine
code and is about 2300 BYTES
long. Unshifted arrow keys
move the cursor. Press 'A' key
to return to basic. Press 'C'
key to enter move. Illegal
move will not enter.

* "Machine Code Loader"
FOR T/S1000
BY James Rutenik

This program is in machine
code and is about 700 bytes
long, but since it loads at
32000 you will need 16K RAM.
The program lets you page
through RAM and make changes.
Use 'RAND USR 32000' to get
into the program once it is
loaded.

Prompts Are:
H-enter 2 HEX digits for high
page
L-enter 2 HEX digits for low
page
To move the inverse video
cursor use:
'Y' key to move cursor left
'V' key to move cursor down
'U' key to move cursor up
'I' key to move cursor right
Press the 'P' key to page
through memory.
Press the 'R' key to return
to BASIC.
Press the 'SHIFT' & 'U' keys
to jump to and run machine code.
Press the 'X' key for HEX to
DECIMAL conversion.
Press the 'Q' key to quit
HEX to DECIMAL conversion.

For RAJ Microdrive owners or
owners of other 'Exatron
Stringy Floppy' for the Timex
Sinclair, the above programs
are available on wafer from:
The Public Domain Software
Exchange
1050 E. Duane Ave, Suite I
Sunnyvale, CA 94086

If you have a modem you may
want to contact the PDSE

bulletin board at:
408 735-7190
Protocol is:
300/1200 BAUD
No parity
8 DATA bits
1 STOP bits

Use 3 slow carriage returns
(ENTER or NEWLINE for the
Timex Sinclair?) when logging
on to allow the system to
establish the BAUD rate.

- We also received literature
from 4 organizations:

* Ron Jeffries
Editor of 'The Jeffries
Report'
He has a very nice article
about why the T/S1000 is a
'crummy' computer.
According to Chris Crawford
(late of Atari), Mr. Jeffries
also wrote an article last fall
about how the Peanut was going
to revolutionize the computer
industry.

* Memotech- about their new
computer

* Axonix- About their portable,
battery operated, 8.5in wide,
thermal printer, 4lb, \$279.
Is anyone interested in
helping to interface it to the
Timex Sinclair?

* Friends Software- About their
Report Generator for DBase II,
ASCII, BASIC, or COBOL files.

- We learned a lot at the
Faire which will help us do a
better job next year:

* Have a list of all user groups
so out of town users can
contact a group near them.

* Contact other user groups and
provide them with the user
group list to have at Faires
in which they participate.

* Sign up for upcoming Faires.

** Timelinez for 1985 West Coast
Computer Faire

STOP AUTO-RUNNING PROGRAMS ON YOUR T/S1000

After I interfaced my T/S1000
with an Aerco disk interface, I
was faced with a small problem.
How could I stop an automatic
running program from a
purchased cassette tape so I
could save it to disk??
Fortunately, the place I
purchased the disk interface
had a one line load sequence
that did just what I wanted.

Instead of LOAD***
Use SAVE CHRS USR 832***

As the monitor screen first
clears of the heavy horizontal
bars, hit the BREAK key (you
have 5 seconds) and the computer
will stop at line 0.

Now, the program can be
modified to SAVE to disk or
another tape.

I hope this 'pseudo LOAD
step will be of use to other
members of the User Group.

Garry Shiver

940403D

Bob Orrfelt
3436 Bay Road,
Redwood City, CA 94063

UPDATE

by RITA L CARR

* Brian Leary, Energy Management Rep. from PG&E, spoke at the May meeting on home energy management/security systems using a personal computer. Although little h/w, s/w, and info are available for the home, Brian has informed me of a home control system that is compatible with any of the Apple II computers. I also have lists of residential energy conservation projects that qualify for Calif. state, Federal, and PG&E's Zero Interest Payment (ZIP) plan. Contact me for further details.

* Bob McConahy and a small group in Washington DC are involved in building a parallel and serial ports, disc interface, speech synthesizer, clock, and other "goodies" into a 3/4 inch "basement" to fit under the 2068.

* From Dick Wagner of Clackamas County Area T/S Users in Oregon: "For 2068 users who suffer hearing loss and find the "click" of the keyboard inadequate, try POKE 23609,100. If you don't want any sound, POKE 23609,0. Does your 2068 start to repeat before you're

ready? Try POKE-ing a new number into address 23561. It is set at 35 on power up. A larger number will cause a longer delay before repeat begins."

HEARD IN THE ALLEY!
- bob orrfelt -

I called ASTED about the 2068 cartridge they developed for Timex. They said the work was done under contract by their research department and they didn't want to talk to anyone who didn't want to buy less than 20,000 pieces. Ho hum.

Also called Alphacom, the maker of the 2040 printer. All new people in marketing. They haven't seen a 2040. They ship the UK version (with UK power supply) directly from the Orient to England. Asked about repair parts. They said they would get back to me.

Heard from a reliable source that Bob Howell went to Hong Kong to see about 2068 stringy floppies. They want an initial order for 100,000 units. Sure they do.

Talked to Dave Higgenbottom (213-864-7068) of Trinity Magnum. He said details are under way with Timex to buy 1500 2068's. He said it will take maybe a week; maybe 10 days. These would be sold through stores known as the Little Computer Stores. The stores are to be financed by limited partnerships. His address is:

Trinity Magnum
10614 Roseton,
Santa Fe Springs, CA 90070

TIMELINEZ P.O. BOX 1312 PACIFICA, CA 94044	
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PUG	FRANK HOARA
SUSTUG	BILL MILLER
Advertising	
PUG	NORM LEHFELDT
SUSTUG	RITA CARR
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